

FORM PTO-1449 U.S. Department of
Commerce Patent and Trademark Office

INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

(Use several sheets if necessary)

ATTY. DOCKET NO.

500.43451X00

SERIAL NO.

10/766,015

APPLICANT

A. KANO, et al

FILING DATE

January 29, 2004

GROUP

2655

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUBCLASS	FILING D. IF APPROP	
<i>W.C.N.</i>		6	2	1	9	7	5	3	4/01	Richardson				
		6	7	7	2	2	8	7	8/04	Uchiyama et al				
		6	6	8	4	2	8	2	1/04	Kocis				
	2 0 0 3	0	1	8	2	5	0	2	9/03	Kleiman et al				
	2 0 0 4	0	2	6	8	0	6	9	12/04	Satoyama et al				
	2 0 0 4	0	2	4	3	3	8	6	12/04	Stolowitz et al				
<i>A.N.</i>		2 0 0 3	0	2	0	4	6	7	1	10/03	Matsunami et al			

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	ABSTRACT
							YES

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER	DATE CONSIDERED
<i>Sh. NY</i>	<i>P-19-05</i>

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(Form PTO-1449 (6-4))

FORM PTO-1449 U.S. Department of Commerce Patent and Trademark Office		ATTY. DOCKET NO. 500.43451X00	SERIAL NO. 10/766,015
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		APPLICANT A. KANO, et al	
(Use several sheets if necessary)		FILING DATE January 29, 2004	GROUP 2655

U.S. PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	ABSTRACT
							YES

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER		DATE CONSIDERED
		8-19-05

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U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING D. IF APPROP
<i>A. N.</i> 2 0 0 3	2 0 1 1 0 3 3 0	06/03	Fujie et al			
	2 0 2 2 1 0 6 1	11/03	EI-Batal et al			
	2 0 2 1 2 8 5 9	11/03	Ellis et al			
	2 0 0 1 9 8 9 7	2/02	Cruyningen			
<i>A. N.</i> 2 0 0 4	2 0 0 1 0 6 6 0	1/04	Konshak et al			

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

<i>A. N.</i>	EMC 2-Gigabit Disk-Array Enclosure EMC Corporation (DAE2), FC and ATA Models, Hardware Ref P/N 014003048, Rev A02.
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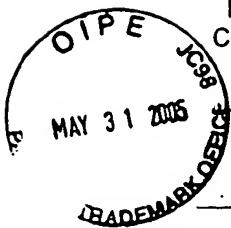
EXAMINER	<i>A. N.</i>	DATE CONSIDERED	<i>8-19-05</i>
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U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
		6	6	3	6	9	3	4					
		5	9	5	1	6	9	1	09/99	Ng et al			
		6	1	1	5	7	9	7	09/00	Kanda et al			
		6	1	7	3	3	6	0	1/01	Beardsley et al			
		6	5	5	3	4	0	8	4/03	Merrell et al			
		6	6	0	6	6	9	0	8/03	Padovano			
Al. N.Y.		6	7	7	2	3	6	5	8/04	Obara			

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUBCLASS	ABSTRACT
		YES	NO										
Al. N.Y.		0	8	4	4	5	6	1	5/98	Katsuragi et al	—	—	

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

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APPLICANT A. KANO, et al										
FILING DATE January 29, 2004								GROUP	2655	

U.S. PATENT DOCUMENTS

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		6	1	0	8	7	4	8					
		6	5	1	0	4	9	1	1/03	Franklin et al			
		6	6	5	1	1	3	7	11/03	Baek et al			
		6	7	0	8	2	3	2	03/04	Obara et al			
		5	5	4	6	5	5	8	8/96	Jacobson et al			

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUBCLASS	ABSTRACT	
		1	3	1	5	0	7	4					YES	NO
		1	3	1	5	0	7	4	5/03	European	—	—		

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<i>A.N.</i> 2 0 0 4	2	0	1	9	3	7	6	0	9/04	Matsunami et al				
	2	0	1	9	9	5	1	5	10/04	Penny et al				
	2	0	1	3	8	7	0	5	9/02	Suzuki et al				
	2	0	2	2	1	0	7	7	11/03	Ohno et al				
	2	0	0	1	0	6	6	2	1/04	Aruga				
<i>A.N.</i> 2 0 0 4	2	0	1	1	7	5	1	7	6/04	Beauchamp et al				

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER	<i>CSB</i>	DATE CONSIDERED	<i>8-79-05</i>
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U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>S. N.</i>	2 0 0 4	0	1	2	8	6	2	7	7/04	Zayas			
	2 0 0 3	0	0	9	7	6	0	7	5/03	Bessire			
	2 0 0 4	0	0	7	8	7	0	7	4/04	Apperley et al			
	2 0 0 4	0	0	7	3	7	4	7	4/04	Lu			
<i>S. N.</i>	2 0 0 4	0	1	7	7	2	1	8	9/04	Meehan et al			

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EXAMINER INITIAL	DOCUMENT NUMBER								DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>AKC</i>	5	6	0	3	0	0	3		2/97	Akizawa et al			
	5	8	3	8	8	9	1		11/98	Mizuno et al			
	5	8	6	7	7	3	6		2/99	Jantz			
	5	8	8	4	0	9	8		3/99	Mason, Jr.			
	6	2	1	9	7	5	2		4/01	Sekido			
	6	2	2	3	2	4	9		4/01	Kato et al			
	6	5	4	9	9	7	8		5/03	Mansur et al			
	6	6	4	0	2	7	8		10/03	Nolan et al			
	6	6	8	4	2	9	5		1/04	Fujimoto et al			
<i>AKC</i>	6	7	4	5	2	8	7		6/04	Fujimoto et al			
<i>AKC</i>	6	2	0	1	6	9	2		3/01	Gamble et al			

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER								DATE	COUNTRY	CLASS	SUBCLASS	ABSTRACT		
														YES	NO	
<i>AKC</i>		2	3	3	3	9	5	4		11/02	Japan					
<i>AKC</i>		2	1	7	8	5	5	7		6/04	Japan					

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							APPLICANT A. KANO, et al		
							FILING DATE January 29, 2004	GROUP	2655

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER							DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>Sh-NY</i>	6	6	2	8	5	1	3	9/03	Gallagher et al			1
	6	8	3	1	8	3	9	12/04	Bovell			
	6	0	6	1	7	5	0	5/00	Beardsley et al			
	6	7	6	3	4	3	6	7/04	Gabber et al			
	6	7	9	2	4	8	6	9/04	Hanan et al			
	6	1	3	7	6	7	9	10/00	Chang			
	6	3	5	1	3	7	5	2/02	Hsieh et al			
	6	4	8	4	2	3	6	11/02	Fujimoto et al			
	6	4	8	4	2	6	9	11/02	Kopylovitz			
<i>Sh-NY</i>	6	7	2	8	9	2	2	4/04	Sundaram et al			
<i>Sh-NY</i>	5	4	7	5	8	1	4	12/95	Tomimitsu			

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUBCLASS	ABSTRACT
<i>Sh-NY</i> 0	2	1	8	8	3	5			Japan	—	—	YES NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

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								A. KANO, et al		
								FILING DATE	GROUP	
								January 29, 2004	2655	

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER								DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
		6	5	0	2	1	0	8							
<i>Scd</i>		6	6	5	8	5	9	2	12/02	Day, III, et al					
		6	6	5	8	5	9	2	12/03	Cohen et al					
<i>2002</i>		2	0	0	0	7	4	6	9	1/02	Taketa et al				
<i>2002</i>		2	0	0	4	0	4	1	3	4/02	Okada et al				

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER								DATE	COUNTRY	CLASS	SUBCLASS	ABSTRACT	
		YES	NO												
<i>Scd</i>		2	1	4	2	6	5	0		5/01	Japan				
<i>Scd</i>		2	1	5	0	7	4	6		5/02	Japan				

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

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Al. V. P.

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									500.43451CX1	10/766,015
									APPLICANT A. KANO, et al	
									FILING DATE January 29, 2004	GROUP 2655

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER								DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>Sh. N.Y.</i>	2 0 0 3	0	0	9	7	5	0	4	5/03	Oeda et al				
	2 0 0 3	0	1	1	5	4	3	7	6/03	Tomita				
	2 0 0 3	0	1	4	5	1	6	7	7/03	Tomita				
	2 0 0 3	0	1	9	6	0	0	2	10/03	Nakayama et al				
<i>Sh. N.Y.</i>	2 0 0 3	0	1	9	6	1	4	7	10/03	Hirata et al				

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER	<i>Sh. N.Y.</i>	DATE CONSIDERED	<i>10/29/04</i>
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U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>S. N.</i>		2	0	0	2	4	9	3	0	2/04	Nakayama et al		
<i>S. N.</i>		2	0	0	6	8	6	1	0	4/04	Umberger et al		
<i>S. N.</i>		2	0	1	0	7	3	2	5	6/04	Mori		

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUBCLASS	ABSTRACT
													YES NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

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<i>S. M.</i>	2 0 0 1	0	0	4	6	1	1	8	11/01	Yamanashi et al				
	2 0 0 1	0	0	5	4	1	3	6	12/01	Ninomiya et al				
	2 0 0 1	0	0	5	6	5	2	7	12/01	Ninomiya et al				
	2 0 0 2	0	1	6	2	0	5	7	10/02	Talagala				
	2 0 0 3	0	0	4	1	2	0	1	2/03	Rauscher				
	2 0 0 3	0	1	7	2	1	5	0	9/03	Kennedy				
<i>S. M.</i>	2 0 0 4	0	1	1	7	5	3	4	6/04	Parry et al				
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<i>SLN</i>	2 0 0 3	0	0	4	1	2	7	8	2/03	Lin				
	2 0 0 4	0	1	1	1	5	6	0	6/04	Takase et al				
	2 0 0 4	0	2	6	7	5	1	6	12/04	Jibbe et al				
<i>SLN</i>	2 0 0 5	0	0	2	7	9	0	0	2/05	Pettet				

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															YES	NO

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<i>As-01</i> 2 0 0 3	2	0	2	3	1	4	2	0	12/03	Kano et al			
	2	0	0	8	8	4	8	2	5/04	Tanzer et al			
	2	0	1	6	9	9	9	6	9/04	Paul et al			
	2	0	0	1	9	5	0	9	9/01	Aho et al			
	2	0	0	4	6	4	6	0	3/03	Inoue et al			
	2	0	1	3	9	2	6	0	7/04	Steinmetz			
<i>As-01</i> 2 0 0 4	2	0	1	4	8	3	2	9	7/04	Ogasawara et al			

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As-01

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<i>S. M.</i>	2	0	0	4	9	8	8	6		4/02	Furuya et al			
	2	0	1	4	4	0	5	7		10/02	Li et al			
	2	0	1	3	1	2	9	1		7/03	Morrison et al			
	2	0	1	6	7	4	3	9		9/03	Talagala et al			
	2	0	0	9	7	4	8	7		5/03	Rietze et al			
	2	0	1	1	1	4	8	5		6/04	Mimatsu et al			
<i>S. M.</i>	2	0	2	6	8	0	3	7		12/04	Buchanan, Jr. et al			
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<i>S. N.</i> 2 0 0 3	2	0	2	1	2	8	5	9	11/03	Ellis				
	2	0	1	4	8	4	6	0	7/04	Steinmetz				
	2	0	1	4	8	4	6	1	7/04	Steinmetz				
	2	0	2	3	6	9	0	8	11/04	Suzuki et al				
	2	0	1	1	0	3	3	0	6/03	Fujie et al				
<i>S. N.</i>	5	8	4	5	3	1	9	12/98	Yorimitsu					
<i>S. N.</i>	6	4	4	9	7	0	9		Gates					

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER

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INFORMATION DISCLOSURE
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ATTY. DOCKET NO.

500.43451CX1

SERIAL NO.

10/766,015

APPLICANT

A. KANO, et al

FILING DATE

January 29, 2004

GROUP

2655

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER							DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
CS-NV	5	8	1	2	7	5	4	9/98	Lui et al			
W. C. D.	5	8	2	2	7	8	2	10/98	Humlincek et al			
CS-NV	2	0	0	6	2	4	5	4/02	Fung			
	0	0	0	2								

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUBCLASS	ABSTRACT	
													YES NO	
CS-NV		2	3	6	1	4	6		2/03	Japan				
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									500.43451CX1	10/766,015	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)									APPLICANT		
									A. KANO, et al		
									FILING DATE	GROUP	
									January 29, 2004	2655	

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER								DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>S.C.W.</i>	2 0 0 3	0	1	8	9	8	1	1	10/03	Peeke et al	—	—		
<i>A.C.W.</i>	2 0 0 3	0	1	3	5	5	7	7	7/03	Weber et al	—	—		

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER								DATE	COUNTRY	CLASS	SUBCLASS	ABSTRACT		
															YES	NO
<i>S.C.W.</i>	1	0	3	0	1	7	2	0	11/98	Japan	—	—	Eng.Trans			

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

<i>S.C.W.</i>	Serial Attached SCSI and Serial ATA Compatibility, Intel, 2002, pp. 1-8.
<i>A.C.W.</i>	ESG Product Brief EMC, March 2003, CLARiiON WITH ATA, pp. 1-2.
<i>S.C.W.</i>	EMC CLARiiON Backup Storage Solutions Back-up-to-Disk Guide with LEGATO Networker Diskbackup Option (DBO), Engineering White Paper, 4/8/2003, pp. 1-28.

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S.C.W. - N.Y.

DATE CONSIDERED 8-19-05

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								500.43451CX1	10/766,015	
								APPLICANT		
								A. KANO, et al		
								FILING DATE	GROUP	
								January 29, 2004	2655	

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER								DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>S.N.</i>	2	0	0	1	4	9	5	6	8/01	Nagata et al	—	—	

FOREIGN PATENT DOCUMENTS

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<i>S.N.</i>	2	1	6	7	0	4	0		6/01	Japan	—	—	—	—	XX	
<i>S.N.</i>	2	3	3	7	8	6	8		12/01	Japan	—	—	—	—	XX	
<i>S.N.</i>	0	9	3	3	0	1	8	4	12/97	Japan	—	—	—	—	XX	

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

<i>S.N.</i>	EMC CLARiiON Backup Storage Solutions Backup-to-disk Guide with Computer Associates' BrightStor ARCserve Backup, Engineering White Paper, 4/16/2003, pp. 1-28.
<i>S.N.</i>	EMC CLARiiON Backup Storage Solutions Backup-to-Disk: An Overview, Engineering White Paper, 3/3/2003, pp. 1-10.
<i>S.N.</i>	EMC CLARiiON Backup Storage Solutions Backup-to-Disk Guide with CommVault Galaxy, Engineering White Paper, 3/3/2003, pp. 1-26.
<i>S.N.</i>	EMC CLARiiON Backup Storage Solutions Backup-to-Disk Guide with Computer Associates BrightStor Enterprise Backup, Engineering White Paper, 4/16/2003, pp. 1-23.

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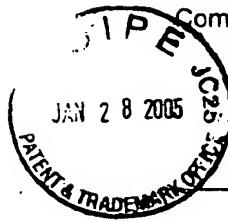
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January 29, 2004

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2685

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>clark</i>		6	2	4	0	4	8	6	05/01	Ofek et al			
		6	1	7	3	3	6	0	01/01	Beardsley et al			
		6	8	0	1	9	9	2	10/04	Gajjar et al			
2 0 0 3		2	0	1	1	5	2	0	6/03	Greenblatt et al			
2 0 0 3		2	0	0	6	1	4	9	1	3/03	Jaskiewicz et al		
2 0 0 3		2	0	1	3	5	6	0	9	7/03	Carlson et al		
2 0 0 4		2	0	1	6	2	9	4	0	8/04	Yagisawa et al		

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	ABSTRACT
					YES	NO	

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ATTY. DOCKET NO.

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APPLICANT

A. KANO, et al

FILING DATE

January 29, 2004

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U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER								DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>J.W.</i>	2 0 0 4	0	2	4	3	6	9	9	12/04	Koclances et al			1	
	2 0 0 4	0	1	7	7	2	2	8	9/04	Leonhardt et al				
	2 0 0 4	0	1	5	8	6	7	6	8/04	Kasmirsky et al				
<i>J.W.</i>	2 0 0 4	0	1	5	3	6	1	4	8/04	Bitner et al				

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER								DATE	COUNTRY	CLASS	SUBCLASS	ABSTRACT
		YES	NO											

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APPLICANT
A. KANO, et al

FILING DATE
January 29, 2004

GROUP

2655

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER								DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>J.W.</i>		5	8	1	2	7	5	4	09/98	Lui et al				
		5	8	2	2	7	8	2	10/98	Humlcek et al				
		6	4	4	9	7	0	9	9/02	Gates				
		2	0	0	6	2	3	8	7	5/02	Yatziv			
<i>J.W.</i>		2	0	0	6	2	4	5	4	5/02	Fung			

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER								DATE	COUNTRY	CLASS	SUBCLASS	ABSTRACT	
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<i>J.W.</i>		1	0	0	1	3	4	5	5/00	European				—	—

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

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		500.43451X00	10/766,015
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		APPLICANT A. KANO, et al	
(Use several sheets if necessary)		FILING DATE January 29, 2004	GROUP 2655

U.S. PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUBCLASS	ABSTRACT		
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<i>U.S.N</i>	2 0 0 3	3	6	1	4	6			2/03	Japan	—	—			

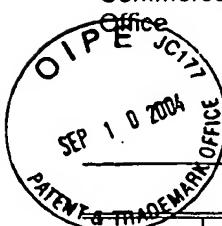
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)	

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STATEMENT BY APPLICANT

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SERIAL NO.

10/766,015

APPLICANT

A. KANO, et al

FILING DATE

January 29, 2004

GROUP

2655

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER								DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
1. N.	6	1	5	4	8	5	0	41/00	Idleman				
	6	4	0	0	7	3	0	6/02	Latif				
2 0 0 2	0	1	4	4	0	4	8	10/02	Bolt				
2 0 0 3	0	1	4	9	8	4	0	8/03	Bolt				
2 0 0 3	0	2	2	1	0	6	1	11/03	EI-Batal				

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	ABSTRACT
						YES
						NO

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APPLICANT
A. KANO, et al

FILING DATE
January 29, 2004

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2655

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<i>S.M.</i>	<p>IBM Technical Disclosure Bulletin Vol. 38, No. 7, July 1995 (New York), "Foreground/Background Checking of Parity in a Redundant Array of Independent Disks-5 Storage Subsystem", pp. 455-458.</p>
<i>S.M.</i>	<p>Laboratory Automation and Information Management 32, 1996, (Elsevier Science B.V), R E Dessy, "Computer Connections", pp. 53-62.</p>

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PTO/SB/08A (08-03)

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Sheet

1 of 1

Complete if Known

Application Number

10-766015

Filing Date

L. J. Hale

First Named Inventor

January 29,
zuma Kano

Examiner Name

2621

U. S. PATENT DOCUMENTS

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Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ² Number ³ Kind Code ⁴ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear T ⁶
<i>cat</i>		JP05-150909 (w ABST)	06-18-1993	NEC CORP	

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